



:TTE Track & Trace of Explosives



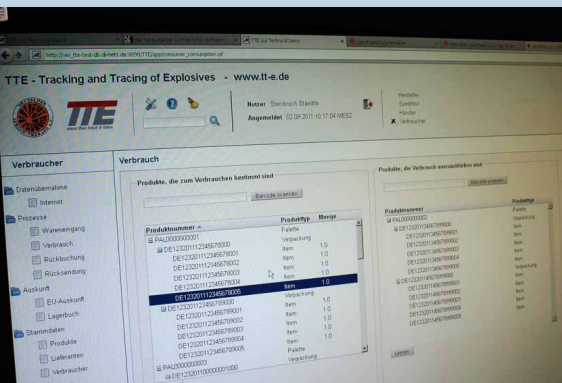
- : Hardware and software solution for implementation of the -directive 2008/43/EG
- Electronical storage records according to the legal regulations
- Considerable improvement of the efficiency by the means of additional software moduls

: Fundamentals and Principles



Fundamentals and requirement of the directive 2008/43/EG for the identification and traceability of explosives

- Improvements in the secure handling of explosives in Europe
- Data acquisition of product lifecycle and supply chain of all commercially used explosives
- Identification of all commercial explosives using unique identification numbers by manufacturers and importers of explosives
- Official registration of explosives, including type of explosive and manufacturing company
- Registration of explosive production sites prior to delivery
- Data storing and archiving for a 10 years period
- Duty to disclose information to legal authorities about the origin, production site and disposition of explosives
- Permanent duty of disclosure (24 hours, 7 days) of all partners in the supply chain



International

- Available in different european languages
- Consideration of different national regulations

Principles

- Implementation of the commission directive 2008/43/EG for the identification and traceability of explosives for civil uses
- Consideration of recommendations by FEEM (Federation of European Explosives Manufacturers)
- Hardware and software solutions in accordance to all business requirements of manufacturers, traders, forwarders and end users for all small, medium and large sized companies
- Possibility to automatically disclose information to legal authorities on an on-demand basis, if it is requested by the company
- Secure data access for all related companies
- Low maintenance and service efforts



: Typical characteristics

Guaranteed flexibility using innovative solutions

- Internet solutions
 - A Collecting data using locally the installed software on a PC, storing and archiving data in internet
 - B Working on the internet, online data collection by an interface, data storage and archiving
- Local solution
 - Working locally, data collection, data storage and archive using locally installed software on a PC

Optimal solution for manufacturers, traders, forwarders and end users

- For small, medium and large sized companies
- Customized software and hardware delivery packages with specific features / services
- Interfaces to existing software solutions
- Existing hardware can be used further on

Usage of common methods for data transfer and identification

- Data transfer: Internet, XML-File, data storage device (USB-Stick), Data Matrix Codes as attachment for delivery note
- Identification: Barcode, Data Matrix Code, RFID

Work optimization

- Substantial reduction of data collection efforts by using unique handling unit identification codes
- Specific data transfer methods
- Possible further rationalization through additional software modules
- Electronic stock-record in accordance with legal explosive regulations
- Support of inventory and storage control
- Generation of statistical information
- Printing of documents, e.g. delivery notes
- Integration of hardware systems such as labeling machines and printers
- Warehouse management and stock control
- Support for forklift management systems





:Key functions

Based on the  -directive 2008/43/EG

Consideration of recommendations by FEEM (Federation of European Explosives Manufacturers)

Available in different european languages

Consideration of different national regulations

Optimal solution for manufacturers, traders, forwarders and end users

For small, medium and large sized companies

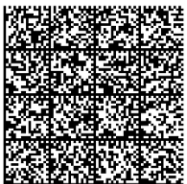
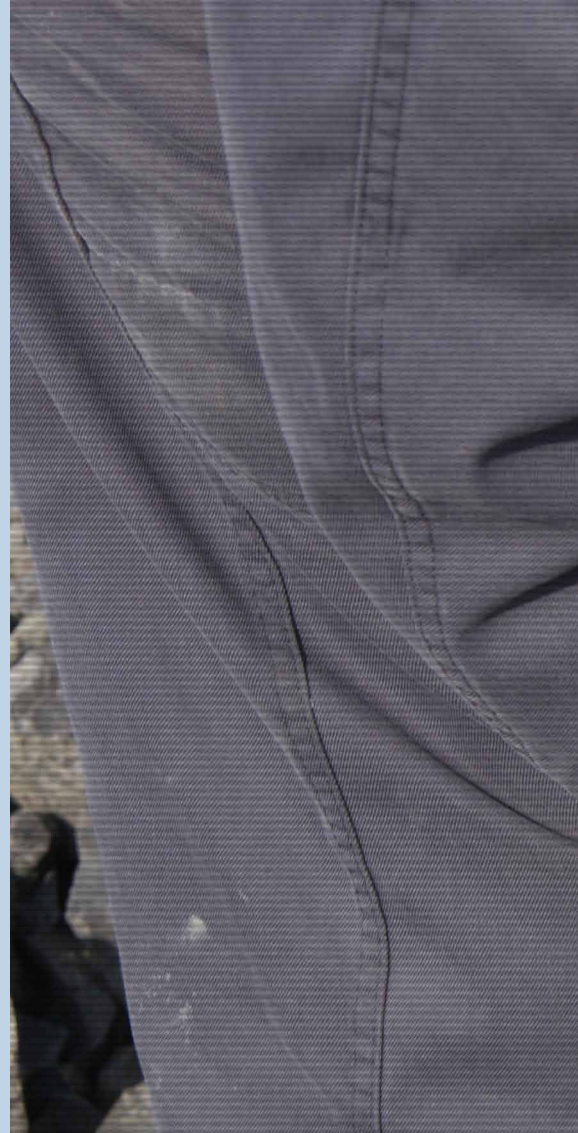
Significant work optimization

Substantial reduction of data collection efforts by using unique handling unit identification codes

Electronic stock-record in accordance with legal explosive regulations

Guaranteed flexibility using innovative solutions (internet and local solution)

Usage of common methods for data transfer and identification



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